Amendment to the Specification

Please replace paragraph 32 beginning on page 9 with the following amended paragraph:

A first aspect of the present invention utilizes the slider body and a hard disk as a Kelvin probe to determine the optimum DC bias voltage that should be applied between the slider body and the hard disk by detecting the minimum electrodynamic response of the slider to the first harmonic of the AC frequency of the AC component of the bias voltage as the DC component of the bias voltage is varied. The minimum electrodynamic response of the slider can be detected using an external Laser Doppler Vibrometer (LDV) or laser interferometer and/or by monitoring the magnitude of a readback signal at the frequency of the AC component of the bias voltage. A second aspect of the invention provides that the optimum DC bias voltage that should be applied between a slider body and a disk is determined by detecting the magnitude of the current fluctuations that flow on and off of the slider as the DC bias voltage is varied. A third aspect of the present invention provides that the optimum DC bias voltage that should be applied between a slider body and a disk is determined by detecting interference between the slider and the disk. It should be understood that throughout the description of the present invention, phrases such as "maximum slider-disk spacing" or "maximum flying height of the slider" should be understood to mean the design flying height of the slider.